

IN THE CLAIMS

1 (Currently Amended). A method comprising:

sending a request to transmit with attached N_T and N_R training symbols, where N_T is the number of antennas or communication chains for transmission and N_R is the number of antennas or communication chains for reception; and

receiving training symbols attached to a clear to transmit response.

~~generating packets for transmission via a first and second antennae;~~

~~including with each generated packet at least one training symbol for said first antenna together with information related to a function other than training; and~~

~~sequentially transmitting one of said packets from said first and then said second antenna.~~

Claims 2 and 3 (Canceled).

4 (Currently Amended). A method according to claim 1, including sequentially transmitting packets from a first and then a second antenna. ~~3, wherein the generated packet is used as a training symbol for transmission via at least one select transmit antenna.~~

5 (Currently Amended). A method according to claim 4, wherein ~~a~~ the at least one transmit antenna is selected as the one providing a best performance metric at a receiver when compared against other transmit antenna options.

6 (Original). A method according to claim 5, wherein the performance metric is a signal to noise ratio (SNR).

7 (Original). A method according to claim 5, wherein the included one or more training symbols are transmit via a select subset of a plurality of transmit antenna(e).

8 (Original). A method according to claim 7, wherein the select subset of transmit antenna include at least a subset of remaining antenna(e) that were not used for transmission of the handshaking packet.

Claims 9 and 10 (Canceled).

11 (Currently Amended). A method according to claim ~~[[2]]~~ 1, further comprising:
transmitting the packet to a remote device as a training symbol via a select first of a plurality of antenna(e); and
transmitting the included training symbols to the remote device via a select second or more of the plurality of antenna(e) to enable the remote device to perform training.

12 (Original). A method according to claim 11, further comprising:
receiving at least a packet from the remote device, wherein the packet is used as a training symbol; and
performing calibration of one or more transmit chains based, at least in part, on channel performance information associated with the received training symbol(s).

13 (Currently Amended). A storage medium comprising content which, when executed, causes an accessing communication device to implement a method including:
sending a request to transmit with attached N_T and N_R training symbols, where N_T is the number of antennas or communication chains for transmission and N_R is the number of antennas or communication chains for reception; and
receiving training symbols attached to a clear to transmit response.
~~generating packets for transmission via a first and second antennae;~~
~~including with each generated packet at least one training symbol for said first antenna together with information related to a function other than training; and~~
~~sequentially transmitting one of said packets from said first and then said second antenna.~~

Claims 14 and 15 (Canceled).

16 (Currently Amended). A storage medium according to claim 14, including sequentially transmitting packets from a first and then a second antenna, wherein the generated packet is used as a training symbol for transmission via at least one select transmit antenna.

17 (Currently Amended). A storage medium according to claim 16, wherein ~~a the at~~ least one transmit antenna is selected as the one providing a best performance metric at a receiver when compared against other transmit antenna options.

18 (Original). A storage medium according to claim 17, wherein the included one or more training symbols are transmit via a select subset of a plurality of transmit antenna(e).

19 (Original). A storage medium according to claim 18, wherein the select subset of transmit antenna include at least a subset of remaining antenna(e) that were not used for transmission of the handshaking packet.

20 (Original). A storage inedium according to claim 19, wherein the included one or more training symbol(s) are transmit via a select subset of a plurality of transmit antenna(e).

Claims 21-36 (Canceled).

37 (Currently Amended). An apparatus comprising:
a storage medium in which to store at least executable content; and
control logic, coupled to the storage medium, to send a request to transmit with
attached N_T and N_R training symbols, where N_T is the number of antennas or communication
chains for transmission and N_R is the number of antennas or communication chains for reception,
and receive training symbols attached to a clear to transmit response. ~~selectively execute at least a~~
~~subset of the executable content stored therein to generate packets for transmission via a first and~~
~~second antennae, to selectively include with each generated packet at least one training symbol for~~
~~said first antenna together with information related to a function other than training, and~~
~~sequentially transmit one of said packets from said first and then said second antenna.~~

Claims 38 and 39 (Canceled).

40 (Original). An apparatus according to claim 39, wherein the control logic selectively executes content to select the first antenna from the plurality of antenna(e) based, at least in part, on a received or perceived indication of channel performance at the remote device.

41 (Currently Amended). An apparatus according to claim 37, further comprising:
a receiver, coupled with the control logic, to receive at least a packet from a a ~~[[the]]~~ remote device, wherein the packet is used as a training symbol, and to enable the control logic to perform calibration of one or more transmit chains based, at least in part, on channel performance information associated with the received training symbol(s).